

IN THE CLAIMS:

1. (PREVIOUSLY PRESENTED) A seat restraint tensioner for a seat restraint system in a vehicle comprising:

a frame for operative connection to vehicle structure;

a cable having a first end and a second end, said first end being operatively connected to a seat restraint of the seat restraint system;

a movable mechanism connected to said second end of said cable to apply a force for tightening the seat restraint when activated;

a rotatable cam being pivotally connected to said frame and having a radius portion on one end and an eccentric portion on an opposite end, said radius portion having a plurality of scallops on one side thereof;

said frame comprising a base wall and opposed side walls extending from said base wall, said base wall including a clamping surface disposed above said scallops of said radius portion of said cam and said cam being disposed between said side walls; and

said cam cooperating with said cable to generate a clamping force to clamp said cable between said cam and said clamping surface to prevent reverse travel of said cable after tightening the seat restraint.

2. (CANCELED)

3. (CANCELED)

4. (CANCELED)

5. (PREVIOUSLY PRESENTED) A seat restraint tensioner as set forth in claim 1 wherein said frame has an aperture extending through said base wall.

6. (ORIGINAL) A seat restraint tensioner as set forth in claim 5 including a cable fitting for connection to the seat restraint of the seat restraint system.

7. (ORIGINAL) A seat restraint tensioner as set forth in claim 6 wherein said first end of said cable is operatively connected to said cable fitting and said cable extends through said aperture along said cam and said second end of said cable is operatively connected to said movable mechanism.

8. (ORIGINAL) A seat restraint tensioner as set forth in claim 7 including at least one cable guide disposed in said aperture, said cable extending through said cable guide.

9. (ORIGINAL) A seat restraint tensioner as set forth in claim 1 wherein said movable mechanism comprises a housing for operative connection to vehicle structure, a movable piston disposed in said housing, and a gas generator operatively connected to said housing for expelling a gas to move said piston.

10. (ORIGINAL) A seat restraint tensioner as set forth in claim 9 wherein said piston includes an annular groove therein and a seal disposed in said groove to prevent gases from exiting past said piston.

11. (ORIGINAL) A seat restraint tensioner as set forth in claim 9 wherein said piston includes a passageway extending longitudinally therethrough, said cable extending through said passageway.

12. (ORIGINAL) A seat restraint tensioner as set forth in claim 11 including a clamp connected to said cable to prevent said cable from exiting said passageway.

13. (ORIGINAL) A seat restraint tensioner as set forth in claim 9 wherein said housing comprises a piston portion extending longitudinally and a gas generation portion extending longitudinally from said piston portion, said gas generation portion having a diameter larger than said piston portion.

14. (ORIGINAL) A seat restraint tensioner as set forth in claim 13 including a retainer disposed in said gas generation portion of said housing to retain said gas generator.

15. (ORIGINAL) A seat restraint tensioner as set forth in claim 9 wherein said gas generator comprises a pyrotechnic device to expel a gas.

16. (PREVIOUSLY PRESENTED) A seat restraint tensioner for a seat restraint system in a vehicle comprising:

a frame for operative connection to vehicle structure;

a housing connected to said frame;

a movable piston disposed in said housing;

a cable fitting for connection to a buckle assembly of the seat restraint system above said frame;

a cable having one end operatively connected to said cable fitting and another end operatively connected to said piston;

a gas generator operatively connected to said housing for expelling a gas to move said piston to apply a force for pulling-down the buckle assembly;

a rotatable cam pivotally connected to said frame and having a radius portion on one end and an eccentric portion on an opposite end, said radius portion having a plurality of scallops on one side thereof;

said frame comprising a base wall and opposed side walls extending from said base wall, said base wall including a clamping surface disposed above said scallops of said radius portion of said cam and said cam being disposed between said side walls; and

said cam cooperating with said cable to generate a clamping force on said cable toward the buckle assembly to prevent reverse travel of said cable after pulling-down the buckle assembly.

17. (ORIGINAL) A seat restraint tensioner as set forth in claim 16 wherein said housing comprises a piston portion extending longitudinally and a gas generation portion

extending longitudinally from said piston portion, said gas generation portion having a diameter larger than said piston portion.

18. (ORIGINAL) A seat restraint tensioner as set forth in claim 17 wherein said gas generator comprises a pyrotechnic device connected to said housing to expel a gas in said gas generation portion.

19. (CANCELED)

20. (CANCELED)

21. (PREVIOUSLY PRESENTED) A seat restraint tensioner as set forth in claim 16 wherein said frame has an aperture extending through said base wall.

22. (ORIGINAL) A seat restraint tensioner as set forth in claim 21 including at least one cable guide disposed in said aperture, said cable extending through said cable guide.

23. (ORIGINAL) A seat restraint tensioner as set forth in claim 16 wherein said piston includes an annular groove therein.

24. (ORIGINAL) A seat restraint tensioner as set forth in claim 23 including a seal disposed in said groove to prevent gases from exiting past said piston.

25. (ORIGINAL) A seat restraint tensioner as set forth in claim 16 wherein said piston includes a passageway extending longitudinally therethrough, said cable extending through said passageway.

26. (ORIGINAL) A seat restraint tensioner as set forth in claim 25 including a clamp connected to said cable to prevent said cable from exiting said passageway.

27. (ORIGINAL) A seat restraint tensioner as set forth in claim 16 including a retainer disposed in said gas generation portion of said housing to retain said gas generator.

28. (PREVIOUSLY PRESENTED) A seat restraint system for a vehicle comprising:

- a buckle assembly;
- a frame for connection to vehicle structure of the vehicle;
- a housing connected to said frame;
- a movable piston disposed in said housing;
- a cable fitting connected to said buckle assembly;
- a cable having one end operatively connected to said cable fitting and another end operatively connected to said piston;
- a gas generator operatively connected to said housing for expelling a gas to move said piston to apply a force for pulling-down said buckle assembly;

a rotatable cam pivotally connected to said frame and having a radius portion on one end and an eccentric portion on an opposite end, said radius portion having a plurality of scallops on one side thereof;

said frame comprising a base wall and opposed side walls extending from said base wall, said base wall including a clamping surface disposed above said scallops of said radius portion of said cam and said cam being disposed between said side walls; and

said cam cooperating with said cable to generate a clamping force toward said buckle assembly to clamp said cable between said cam and said clamping surface to prevent reverse travel of said cable after pulling-down said buckle assembly.

29. (PREVIOUSLY PRESENTED) A seat restraint tensioner for a seat restraint system in a vehicle comprising:

a frame for operative connection to vehicle structure and a housing connected to said frame;

a movable piston disposed in said housing;

a cable fitting for connection to a buckle assembly of the seat restraint system above said frame;

a cable having one end operatively connected to said cable fitting and another end operatively connected to said piston;

a gas generator operatively connected to said housing for expelling a gas to move said piston to apply a force for pulling-down the buckle assembly; and

a rotatable cam pivotally connected to said frame and having a radius portion on one end and an eccentric portion on an opposite end, said radius portion having a plurality of scallops on one side thereof;

said frame comprising a base wall and opposed side walls extending from said base wall, said base wall including a clamping surface at an angle greater than zero relative to a longitudinal axis of said housing and disposed above said scallops of said radius portion of said cam and said cam being disposed between said side walls; and

said cam cooperating with said cable to generate a clamping force to clamp said cable between said cam and said clamping surface.